



PATENT
ATTORNEY DOCKET NO. **AURO1330**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Stack et al. Art Unit: Unassigned
Serial No.: 09/498,098 Examiner: Unassigned
Filed: February 4, 2000
Title: METHODS OF PROTEIN DESTABILIZATION AND USES THEREOF

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. 1.97, enclosed are references relating to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449 and a copy of each is enclosed herewith.

It is respectfully requested that these references be considered in the examination of this application and their consideration be made of written record in the application file.

CERTIFICATION UNDER 37 CFR §1.8

I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on this date, April 10, 2000, in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Name of Person Mailing Paper

Signature

In re Application of: Stack et al.
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No fee is deemed necessary in connection with the filing of this paper. However, if any fee is required, the Commissioner is hereby authorized to charge the amount of this fee, or credit any overpayments, to Deposit Account No. 07-1895. A copy of the Transmittal Sheet is enclosed.

Respectfully submitted,

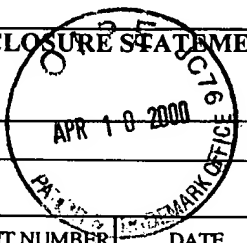
Date: 4/6/00



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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No.	Serial No.:
	AURO1330	09/498,098
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicant(s): Stack t al.	Group Art Unit:
	Filing Date: February 4, 2000	Unassigned



U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
JAX	P1	5093242	3/3/92	Bachmair et al.			
	P2	5122463	6/16/92	Varshavsky et al.			
	P3	5132213	7/21/92	Bachmair, et al.			
	P4	5196321	3/12/93	Bachmair et al.			
	P5	5358857	10/25/94	Stengelin et al.			
	P6	5366871	11/22/94	Rechsteiner et al.			
	P7	5459051	10/17/95	Mascarenhas			
	P8	5496721	4/5/96	Bachmair et al.			
	P9	5503977	4/2/96	Johnsson et al.			
	P10	5532142	7/2/96	Johnston et al.			
	P11	5563046	10/8/96	Mascarenhas et al.			
	P12	5563123	10/8/96	Innis et al.			
	P13	5585245	12/17/96	Johnsson et al.			
	P14	5589359	12/21/96	Innis et al.			
	P15	5625048	4/29/97	Tsien et al.			
all considered	P16	5646017	7/8/97	Bachmair et al.			
	P17	5721133	2/24/98	Dasmahapatra			
	P18	5741657	4/21/98	Tsien et al.			
	P19	5763212	6/9/98	Varshavsky et al.			
	P20	5763225	6/9/98	Rechsteiner et al.			
	P21	5777079	7/7/98	Tsien et al.			
	P22	5817494	10/6/98	Bandman et al.			
	P23	5847097	12/8/98	Bachmair et al.			
JAX	P24	5955604	9/21/99	Tsien et al.			
	P25	5981200	11/9/99	Tsien et al.			

EXAMINER	DATE CONSIDERED
<i>James A. Ayall</i>	9/14/01

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FOREIGN PATENT DOCUMENTS								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
Q48	F1	EP 479912	6/27/90					
Q48	F2	WO9947640	9/23/99					
	F3							
	F4							
	F5							
	F6							
	F7							

OTHER PUBLICATIONS (including Author, Title, Date, Pertinent Pages, Etc.)		
Q48	D1	Bachmair et al., In Vivo half-life of a Protein is a Function of Its Amino-Terminal Residue, <u>Science</u> 234, pp. 179-186, (1986).
Q48	D2	Bachmair et al., The Degradation Signal in a short-lived Protein, <u>Cell</u> 56, pp. 1019-1032, (1989)
Q48	D3	Butt et al., Ubiquitin-Metallothionein Fusion Protein Expression in Yeast, <u>The Journal of Biological Chemistry</u> 263, pp. 16364-16371, (1988)
Q48	D4	Ciechanover et al., The Ubiquitin-Mediated Proteolytic Pathway and the Mechanism of Energy-Dependent Intracellular Protein Degradation, <u>Journal of Cellular Biochemistry</u> 24, pp. 27-53 (1984)
Q48	D5	Ciechanover, The ubiquitin-proteasome pathway: on protein death and cell life, <u>The EMBO Journal</u> 17, pp. 7151-7160, (1998).
Q48	D6	Fiering et al., Improved FAC-Gal: Flow Cytometric Analysis and Sorting of Viable Eukaryotic Cells Expressing Reporter Gene Constructs, <u>Cytometry</u> 12, pp. 291-301, (1991)
Q48	D7	Finley et al., The Ubiquitin System: functions and mechanisms, <u>TIBS</u> , pp. 343-347, (1985)
Q48	D8	Gonda et al., Universality and Structure of the N-end Rule, <u>The Journal of Biological Chemistry</u> 264, pp. 16700-16712, (1989).
Q48	D9	Hershko et al., The Ubiquitin System, <u>Annual Review of Biochemistry</u> 67, pp. 425-479, (1998)

EXAMINER: <u>Q48</u>	DATE CONSIDERED: <u>9/4/99</u>
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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9/18	D10	Hochstrasser, Ubiquitin-Dependent Protein Degradation, <u>Annual Review of Genetics</u> 30, pp. 405-439, (1996)
	D11	Johnson et al., Proteolytic Pathway that Recognizes Ubiquitin as a Degradation Signal, <u>The Journal of Biological Chemistry</u> 270, pp. 17442-17456, 91995)
	D12	Johnson et al., Ubiquitin as a Degradation Signal, <u>The EMBO Journal</u> 11, pp. 497-505, (1992)
	D13	Jonnalagadda et al., Multiple Protein Endoproteases in Cells, <u>The Journal of Biological Chemistry</u> , 264, pp. 10637-10642, (1989).
	D14	Koepp et al., How the Cyclin Became a Cyclin: Regulated Proteolysis in the Cell Cycle, <u>Cell</u> 97, pp. 431-434, (1999).
	D15	Laney et al., Substrate Targeting in the Ubiquitin System, <u>Cell</u> 97, pp. 427-430, (1999).
	D16	Lawler, et al., Viral Protease Assay Based on GAL4 Inactivation Is Applicable to High-Throughput Screening in Mammalian Cells, <u>Analytical Biochemistry</u> 269, pp.133-138, (1999).
	D17	Lee et al., Proteasome inhibitors: valuable new tools for cell biologists, <u>Cell Biology</u> 8, pp. 397-403, (1998).
	D18	Li et al., Generation of Destabilized Green Fluorescent Protein as a Transcription Reporter, <u>The Journal of Biological Chemistry</u> 272, pp. 34970-34975, (1998).
	D19	Marcotte et al., Detecting Protein Function and Protein-Protein Interactions from Genome Sequences, <u>Science</u> 285, pp. 751-753 (1999).
	D20	Ozkaynak et al., The yeast ubiquitin gene: head-to-tail repeats encoding a polyubiquitin precursor protein, <u>Nature</u> 312, pp. 663-666, (1984)
	D21	Thompson et al., Modulation of Firefly Luciferase Stability and Impact on Studies of Gene Regulation, <u>Gene</u> 103, pp. 171-177, (1991).
	D22	Thrower et al., Recognition of the Polyubiquitin Proteolytic Signal, <u>The EMBO Journal</u> 19, pp. 94-102, (2000).
	D23	Varshavsky, The N-end Rule, <u>Cell</u> 69, pp. 725-735, (1992).
	D24	Varshavsky, The N-End: Functions, Mysteries, Uses, <u>Proc. Natl. Acad. Sci. USA</u> 93, pp. 12142-1214, (1996).
	D25	Varshavsky, The Ubiquitin System, <u>TIBS</u> 22, pp. 383-387, (1997).
9/18	D26	Worley et al., Engineering in vivo instability of firefly luciferase and Escherichia coli Beta-glucuronidase in higher plants using recognition elements from the ubiquitin pathway, <u>Plant Molecular Biology</u> 37, pp. 337-347, (1998).
	D27	
	D28	

EXAMINER

DATE CONSIDERED

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